Receipt date: 02/03/2010 10593018 - GAU: 2858

CUSTOMER NUMBER 25268

INFORMATION DISCLOSURE STATEMENT LISTING SHEET

Information Cited By Applicant(s) That May Be Material To
The Prosecution Of The Subject Application

Applicants: George et al. Attorney Docket No. BIOL0119
Serial No.: 10/593,018 Group Art Unit: 1645 2858
Filed: October 22, 2008 Examiner: Roberto Velez

01

Confirmation No. 5725

Title: IMAGE BASED QUANTITATION OF MOLECULAR TRANSLOCATION

U.S. PATENT DOCUMENTS

NONE CITED

FOREIGN PATENT DOCUMENTS

NONE CITED

OTHER INFORMATION

Hecht, Eugene. "Optics 4th ed." Addison-Wesley Longman, Inc., XP-

	002465391, ISBN: 0-8053-8566-5, 2002.
 O2	Hultdin et al., "Telomere analysis by fluorescence <i>in situ</i> hybridization and flow cytometry," <i>Nucleic Acids Research</i> Vol. 26, No. 16: 3651-3656, August 15, 1998.
 О3	Kubota et al., "Flow Cytometer and Imaging Device Used in Combination." <i>Cytometry</i> 21: 129-132, 1995.
 O4	Kubota, Fumio. "Analysis of red cell and platelet morphology using an imaging-combined flow cytometer." <i>Clin. Lab. Haem.</i> 25: 71-76, 2003.
 O5	Lauzon et al., "Flow Cytometric Measurement of Telomere Length," <i>Cytometry</i> 42: 159-164, June 2000.
O6	Levron et al., "Sperm chromosome abnormalities in men with severe male factor infertility who are undergoing in vitro fertilization with intracytoplasmic sperm injection," <i>Fertility and Sterility</i> Vol. 76, No. 3: 479-484, September 2001.

Receipt date: 02/03/2010

OTHER INFORMATION

 O7	Lowe et al., "Aneuploid epididymal sperm detected in chromosomally normal and Robertsonian translocation-bearing mice using a new three-chromosome FISH method," <i>Chromosoma</i> 105: 204-210, 1996.
 O8	Majno et al., "Apoptosis, Oncosis, and Necrosis <i>An Overview of Cell Death</i> ," <i>American Journal of Pathology</i> Vol. 146, No. 1: 3-15, January 1, 1995.
 09	Martin et al., "Detection of aneuploidy in human interphase spermatozoa by fluorescence in situ hybridization (FISH)," <i>Cytogenetics and Cell Genetics</i> 64: 23-26, 1993.
 O10	Nautiyal et al., "17β-Estradiol induces nuclear translocation of CrkL at the window of embryo implantation," <i>Biochemical and Biophysical Research Communications</i> 318: 103-112, 2004.
 O11	Ong, Sim Heng, "Development of a System for Imaging and Classifying Biological Cells in a Flow Cytometer," Doctor of Philosophy Thesis, University of Sydney, School of Electrical Engineering, August, 1985.
O12	Ong et al., "Development of an Image Flow Cytometer," <i>Analytical and Quantitative Cytology and Histology</i> . XIVth International Conference on Medical and Biological Engineering and the VIIth International Conference on Medical Physics, Finland: 375-382, August 1987.
 O13	Ong et al., "Optical Design in a Flow System For Imaging Cells," <i>Sciences in Medicine</i> , Vol. 14, No. 2: 74-80, 1991.
 O14	Ong et al., "Analysis of MTF Degradation in the Imaging of Cells in a Flow System," <i>International Journal of Imaging Systems & Technology</i> 5: 243-250, 1994.
O15	Ortyn et al., "Extended Depth of Field Imaging for High Speed Cell Analysis" <i>Cytometry Part A</i> 71A: 215-231, 2007.
 O16	Pala et al., "Flow cytometric measurement of intracellular cytokines," <i>Journal of Immunological Methods</i> 243: 107-124, 2000.
O17	Pang et al., "Detection of aneuploidy for chromosomes 4, 6, 7, 8, 9, 10, 11, 12, 13, 17, 18, 21, X and Y by fluorescence in-situ hybridization in spermatozoa from nine patients with oligoasthenoteratozoospermia undergoing intracytoplasmic sperm injection," <i>Human Reproduction</i> Vol. 14, No. 5: 1266-1273, 1999.
 O18	Patterson et al., "Detection of HIV-1 DNA and Messenger RNA in Individual Cells by PCR-Driven in Situ Hybridization and Flow Cytometry," <i>Science</i> 260: 976-979, May 14, 1993.
O19	Perreault et al., "The Role of Disulfide Bond Reduction during Mammalian Sperm Nuclear Decondensation <i>in Vivo</i> ," <i>Developmental Biology</i> 101: 160-167, 1984.

Receipt date: 02/03/2010

OTHER INFORMATION

O20	Pinkel et al., "Cytogenetic analysis using quantitative, high sensitivity, fluorescence hybridization," <i>Proceedings of the National Academy of Sciences: Genetics</i> 83: 2934-2938, 1986.
 O21	Pollice et al., "Sequential Paraformaldehyde and Methanol Fixation for Simultaneous Flow Cytometric Analysis of DNA, Cell Surface Proteins, and Intracellular Proteins," <i>Cytometry</i> 13: 432-444, 1992.
O22	Ried et al., "Simultaneous visualization of seven different DNA probes by <i>in situ</i> hybridization using combinatorial fluorescence and digital imaging microscopy," <i>Proceedings of the National Academy of Sciences: Genetics</i> 89: 1388-1392, February 1992.
 O23	Robbins et al., "Aneuploidy in sperm of Hodgkin's disease patients receiving NOVP chemotherapy," <i>The American Journal of Human Genetics</i> Vol. 55, No. 3 – Supplement: A68 (371), September 1994.
O24	Robbins et al., "Detection of Aneuploid Human Sperm by Fluorescence In Situ Hybridization: Evidence for a Donor Difference in Frequency of Sperm Disomic for Chromosomes I and Y," <i>The American Journal of Human Genetics</i> , 52: 799-807, 1993.
 O25	Robbins et al., "Three-probe Fluorescence <i>in situ</i> Hybridization to Assess Chromosome X, Y, and 8 Aneuploidy in Sperm of 14 Men from Two Healthy Groups: Evidence for a Paternal Age Effect on Sperm Aneuploidy," <i>Reproduction, Fertility and Development</i> 7: 799-809, 1995.
 O26	Robbins et al., "Use of Fluorescence In Situ Hybridization (FISH) To Assess Effects of Smoking, Caffeine, and Alcohol on Aneuploidy Load in Sperm of Healthy Men," <i>Environmental and Molecular Mutagenesis</i> 30: 175-183, 1997.
 O27	Rufer et al., "Telomere length dynamics in human lymphocyte subpopulations measured by flow cytometry," <i>Nature Biotechnology</i> 16: 743-747, August 1998.
 O28	Salzman et al., "Light Scatter: Detection and Usage," <i>Current Protocols in Cytometry</i> Supplement 9: 1.13.1-1.138.8, 1999.
 O29	Satoh et al., "Small Aggregates of Platelets Can Be Detected Sensitively by a Flow Cytometer Equipped With an Imaging Device: Mechanisms of Epinephrine-Induced Aggregation and Antiplatelet Effects of Beraprost." <i>Cytometry</i> 48: 194-201, 2002.
O30	Schmid et al., "Evalulation of inter-scorer and inter-laboratory reliability of the mouse epididymal sperm aneuploidy (m-ESA) assay," <i>Mutagenesis</i> Vol. 16, No. 3: 189-195, 2001.
 O31	Schmid et al., "Simultaneous Flow Cytometric Analysis of Two Cell Surface Markers, Telomere Length, and DNA Content," <i>Cytometry</i> 49: 96-105, 2002.

Receipt date: 02/03/2010

OTHER INFORMATION

 O32	Schwerin et al., "Quantification of Y Chromosome Bearing Spermatozoa of Cattle Using In Situ Hybridization," <i>Molecular Reproduction and Development</i> 30: 39-43, 1991.
 O33	Shi et al., "Aneuploidy in human sperm: a review of the frequency and distribution of aneuploidy, effects of donor age and lifestyle factors," <i>Cytogenetics and Cell Genetics</i> 90: 219-226, 2000.
O34	Timm et al., "Amplification and Detection of a Y-Chromosome DNA Sequence by Fluorescence In Situ Polymerase Chain Reaction and Flow Cytometry Using Cells in Suspension," <i>Cytometry (Communications in Clinical Cytometry)</i> 22: 250-255, 1995.
 O35	Timm et al., "Fluorescent <i>In Situ</i> Hybridization En Suspension (FISHES) Using Digoxigenin-qLabeled Probes and Flow Cytometry," <i>Biotechniques</i> Vol. 12, No. 3: 362-367, 1992.
 O36	Trask et al., "Fluorescence in situ hybridization to interphase cell nuclei in suspension allows flow cytometric analysis of chromosome content and microscopic analysis of nuclear organization," <i>Human Genetics</i> 78:251-259, 1988.
 O37	Tucker et al., "Extended depth of field and aberration control for inexpensive digital microscope systems" <i>Optics Express</i> Vol. 4, No. 11: 467-474, May 24, 1999.
 O38	van Dekken et al., "Flow Cytometric Quantification of Human Chromosome Specific Repetitive DNA Sequences by Single and Bicolor Fluorescent In Situ Hybridization to Lymphocyte Interphase Nuclei," <i>Cytometry</i> 11: 153-164, 1990.
 O39	van den Berg et al., "Detection of Y Chromosome by <i>In situ</i> Hybridization in Combination with Membrane Antigens by Two-Color Immunofluorescence," <i>Laboratory Investigation</i> Vol. 64, No.5: 623-628, 1991.
 O40	Wang et al., "A Novel Apoptosis Research Method With Imaging-Combined Flow Cytometer and HITC OR IR-125 Staining," <i>Cytometry (Clinical Cytometry)</i> 50: 267-274, 2002.
 O41	Weber-Matthieson et al., "Rapid immunophenotypic characterization of chromosomally aberrant cells by the new FICTION method," <i>Cytogenetics Cell Genetics</i> 63: 123-125, 1993.
O42	Weber-Matthieson et al., "Simultaneous Fluorescence Immunophenotyping and Interphase Cytogenetics: A Contribution to the Characterization of Tumor Cells," <i>Journal of Histochemistry and Cytochemistry</i> Vol. 40, No. 2: 171-175, 1992.

2/3/10

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

^{**}Documents cited herein marked with an "**" have not previously been cited in a priority application relied upon herein for an earlier filing date. Copies of any so-noted Foreign Patent Documents and Other Information are enclosed for the Examiner's use.

MCK:elm